5.1 Conceptual Housing Plan

This chapter contains a conceptual description of the ways that Alternative 5 would accommodate the additional housing foreseen in Mitigation Measure SOCIO-1b.

Under this conceptual plan, additional housing would be built in both the NASA Research Park (NRP) and Bay View areas.

A. Land Use

Table 5.1-1 and Figure 5.1-1 show a conceptual land use plan and development summary for configuration changes that would accommodate the additional housing foreseen under Mitigation Measure SOCIO-1b. As shown in the table and the figure, the land use plan would be changed in the following ways:

1. NRP Area

To accommodate additional housing, the following changes would be made to Alternative 5 in the NRP Area:

- The land area of NRP Parcel 1, which is proposed to accommodate the Lab Project proposed under the baseline, would be decreased. The development potential of this parcel could be kept the same through an increase in the parcel's allowed FAR.
- The land area of NRP Parcel 6, which is proposed for housing, would be increased, with a corresponding increase in its development potential.
- A portion of Buildings 19¹ and 20 would be redesignated for use as dormitory housing. This would be in keeping with the historic use of these buildings, which were originally built as enlisted men's and officer's housing respectively.

¹ 90,000 square feet of Building 19 would remain office space.

Table 5.1-1: Potential Reconfiguration of Alternative 5 to Accommodate Additional Housing

	Londillos	Parcel Area	Parcel Area	FAR	Developable	Developable
Parcel	Land Use	(HECT)	(AC)	FAR	Area (MS)	Area (SF)
ဟ	1 ARC Facilities	89.03	220.01	0.31	277,748	2,989,658
Ames Campus	2 Preserve	3.15	7.78	N/A		N/A
투	3 Recreation	1.62	4.01	N/A		N/A
۳ ن	Sub Total	93.8	231.8		277,748	2,989,658
	1 Lab Project	* 2.43	6.00	N/A	11,148	120,000
	2 Lab Project	* 7.90	19.53	0.71	55,742	600,000
	3 University Reserve	1.03	2.53	0.75	7,711	83,000
	4 Partner Parcel	1.50	3.70	0.18	2,661	28,645
	5 University Reserve	11.58	28.60	0.75	86,864	935,000
	6 University Reserve	3.81	9.42	1.15	43,850	472,000
논	7 Computer Museum	1.26	3.11	0.88	11,148	120,000
NASA Research Park	8 Partner Parcel	2.43	6.00	0.75	18,116	195,000
=	9 Gateway Parcel	0.26	0.65	N/A	N/A	N/A
2	10 Partner Shared	0.77	1.91	N/A	N/A	N/A
96	11 Partner Shared	1.36	3.35	0.08	1,115	12,000
ě	12 Historic District	7.91	19.55	N/A	8,268	89,000
4	12a Historic District	0.50	0.40	0.75	17,280	186,000
S	13 Historic District Infill	2.59	6.40	0.75	19,510	210,000
Ž	14 Historic District Infill	0.87	2.15	0.27	2,323	25,000 40.000
	15 Historic District Infill 16 Partner Parcel	1.06	2.62	0.35	3,716	,
	17 Historic Dist Reno	1.85 1.72	4.56	0.35	6,503	70,000 45,000
	18 C.Air & Space Cntr.	5.70	4.26 14.09	N/A 0.81	4,181	500,000
	19 Preserve	8.70	21.50	N/A	46,452 N/A	N/A
	X No Change (H D)	N/A	N/A	N/A	869	9,355
	Sub Total	64.7	159.9	14//3	347,457	3,740,000
	1 A/C Control Tower	0.19	0.46	0.60	1,114.8	12,000
_	2 Preserve	9.82	24.26	N/A	N/A	N/A
용모	3 Open Space	59.53	147.11	N/A	N/A	N/A
fie	X No Change	25.03	61.84	N/A	79,862.8	859,636
Eastside / Airfield	Sub Total	94.6	233.7		80,978	871,636
	A CANG Master Plan (EA)	**				
		9.33	22.06	1 10	111 010	1,195,000
	1 Housing 2 Education Reserve	0.93	23.06 2.30	1.19 0.48	111,019 4,459	48,000
	3 NASA Reserve	2.05	5.06	N/A	4,459 N/A	48,000 N/A
	4 Recreation	1.63	4.02	N/A	N/A	N/A
≥	5 Recreation	2.98	7.37	N/A	N/A	N/A
<u>ë</u>	6 Preserve	6.16	15.22	N/A	N/A	N/A
\ \	7 Preserve	4.81	11.89	N/A	N/A	N/A
Bay View	8 Open Space	2.57	6.35	N/A	N/A	N/A
	9 Open Space	0.90	2.23	N/A	N/A	N/A
	10 Open Space	4.52	11.17	N/A	N/A	N/A
	11 Open Space	3.02	7.46	N/A	N/A	N/A
	Sub Total	38.9	96.1		115,478	1,243,000
Total					821,662	8,844,294
	A CANG Master Plan(EA)	44.52	110.00	N/A	6,020	64,800
	Existing CANG Facilities	N/A	N/A	N/A	20,717	223,000

^{* &}quot;Preapproved pursuant to the 1994 NASA/MFA Environmental Assessment - Comprehensive Use Plan"

^{** &}quot;Preapproved pursuant to the CANG EA Master Plan - Square footage not included in totals

FIGURE 5.1-1

MITIGATED ALTERNATIVE FIVE











2. Bay View Area

To accommodate additional housing, the following changes would be made to Alternative 5 in the Bay View Area:

- The land area of Bay View Parcel 1, which is designated for housing development, would be increased, as would the parcel's allowed FAR.
 This would create the potential for a significantly larger housing development on the parcel.
- The land area of Bay View Parcel 2 would be decreased, resulting in a smaller development potential.
- Despite the increase in housing potential, there would still be room to increase the buffer between the wetlands and development, as required in Mitigation Measure BIO-19 as added in this Final EIS. The buffer area would be increased by distributing the open space in Parcel 10 in a new configuration, while leaving Parcel 10's land area the same.

3. Other Areas

The changes to the Bay View would result in a small decrease to the area of Ames Campus Parcel 1. This would not, however, reduce the expected build-out of the Ames Campus.

Otherwise, proposed land uses for the Eastside/Airfield and the Ames Campus area would not be affected by the implementation of Mitigation Measure SOCIO-1b.

B. Potential Housing and Population

Table 5.1-2 provides a summary of the potential unit counts and population that would be accommodated in both the NRP and Bay View areas with the changes to Alternative 5 described above.

TABLE 5.1-2 ALTERNATIVE 5 WITH HOUSING MITIGATION - POTENTIAL HOUSING, POPULATION AND PARKING

	Parcel	Area		Developable	Housing	Square Feet per	Number	Persons/		Parking
Location	(ha)	(Ac)	FAR	Area (sf)	Type	Housing Type	of Units	Unit	Population	Calculations
NRP Area:										
Building 19	NA	NA	NA	138,000	Dorm	600	160	2	320	216
Building 20	NA	NA	NA	30,000	Dorm	150-250	60	1	60	81
Parcel 6	3.69	9.42	1.15	472,000	Dorm/Apt.	800	590	2	1,180	796
NRP Total				648,000			810		1,560	1,093
Bay View Area:										
Parcel 1	9.33	23.06	1.19	1, 195,000						
					Townhome	1,300	250	2.99	748	337
					Apartment	1,000	870	2.99	2,601	1,174
Bay View Total				1,243,000	•		1,120		3,349	1,511
TOTAL				1,891,000			1,930		4,909	2,604

Notes:

- 1. Building 19 is within NRP Parcel 12. Building 20 is within NRP Parcel 12a.
- 2. Building 19 was under office use in Alternative 5 as analyzed in the Draft Programmatic EIS.
- 3. Building height in NRP Parcel 6 would range from 3-4 stories depending on the layout and parking. A parking structure would be required at this density.
- 4. Building heights in Bay View Parcel 1 would range from 4-5 stories depending on the layout and parking.
- 5. Parking calculations are based on the following equation: ((number of units x 1.25) + 1 visitor for every 10 units)

Table 5.1-2 is based on the following assumptions regarding the types of units that might be built under the NADP:

- All housing in the NRP would be student apartments and dormitories, with both one and two person units. Building 19 and the new housing to be constructed in Parcel 6 would be developed with 600- to 800-square foot student apartment units holding two students or employees each. Building 20 would contain one-person units of 150 to 250 square feet.
- Townhomes to be built in the Bay View area would be increased in size over those assumed for Alternative 5 in the DPEIS, with 1,300-square foot units instead of 1,200-square foot units.
- In addition to the townhomes, Bay View housing would include apartments, which would be 1,000-square foot units.

The amount of housing that could be built with these changes would differ from that originally proposed under Alternative 5 in several ways:

- In the NRP area, 810 dormitory units would be provided, as compared to 290 under Alternative 5 without mitigation.
- In the Bay View area, 1,120 townhomes and apartment units would be provided, as compared to 750 under Alternative 5 without mitigation.
- The total number of housing units in both areas would be 1,930 units, as compared to 1,040 units proposed under Alternative 5 without mitigation.

The resulting housing population in the NRP and Bay View areas would be 4,909 people. Of these, 1,560 would live in student apartments and dormitories in the NRP area, 748 would live in townhomes in the Bay View area, and the remaining 2,601 would live in apartments in the Bay View area.

As shown in Table 5.1-3, the total NRP-based employees and students would be 1,560. The total Bay View-based employees and students would be 1,400.

TABLE 5.1-3 EMPLO	YEE/STUDENT	CAPTURE		
	Housing Type	Number of Units	Persons Per Unit	Total Population
NRP Area:				
Building 19	Dormitory	160	2	320
Building 20	Dormitory	60	1	60
Parcel 6	Dormitory	590	2	1,180
Total NRP				1,560
Bay View Area:				
	Townhome	250	1.25	313
	Apartment	870	1.25	1,088
	Dormitory	0	2	0
Total Bay View				1,400
TOTAL				2,960

C. Employee and Student Capture

The student apartments and dormitories in the NRP area would be open only to students and employees at ARC. Townhomes and apartments and in the Bay View would be open to families in which at least one adult is an employee or student at ARC, but it is reasonable to assume that at least some of the Bay View housing would accommodate households in which two people work or study at ARC.

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For planning purposes, NASA assumes that an average of 1.25 employees or students would live in each Bay View housing unit. This assumption is based on actual surveyed conditions at the Presidio in San Francisco, which is the best comparison data available. See Section 5.2 for more details on the expected demand.

Based on these assumptions, the housing that would be built under Alternative 5 with the modifications to accommodate Mitigation Measure SOCIO-1b would accommodate a total of 2,960 ARC employees and students, as shown in Table 5.1-3.

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